

WTCL-40-P

WC99-1202
Renovations

METLIFE

WTC 89 FL



Memorandum

TO: Teresa Koebel, Manager, World Trade Project Management
FROM: C. John Lin
DATE: December 10, 1999
SUBJECT: WTC- ALTERATION APPLICATION WC991202 - METLIFE - 1
WTC - 89 th FLOOR - RENOVATIONS
REFERENCE: Review Request dated 11-19-99
COPY TO: A. Fadavi, J. Napolitano, J. Richardson, Chrono Folder, Job Folder

An audit of the material submitted with the referenced request has been made.

There are no comments.

Drawings:

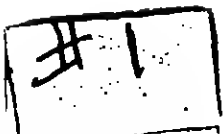
REMARKS: 1) This memorandum was transmitted to the Facility via Outlook on
December 10, 1999

Alvin S. Rohesler
for C. John Lin, P.E.
Manager
Quality Assurance Division

I.D.: WC99-1202-001
HV/lm

Reviewers:

H.Vadi, Coordinator; K.Gupta, Architectural; A.Diaz-H, Electrical; Z.Goldenberg, Mechanical;
K.Narsule, Plumbing and Fire Protection; W.Lipsky, Structural;



SELF CERTIFICATE

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY

TENANT ALTERATION APPLICATION REVIEW REQUEST

12/10

DISTRIBUTION		
No.	To	Facility
1	QAD	PATC Zip 73
1	D. Warren	PATC Zip 43
1	S.P. Chiao	88 S
1	G. Daly	88 S
1	B. Brown	88 S
1	E. Cornelius/Nick Strenk - LERA	2 WTC 37 th Fl
1*	R. Simonetti	2 WTC 37 th Fl
1*	CADD Disk Set	37 th Fl
1	F. DeMartini	88 S
1	P. Negron	2 WTC 37 th Fl
1	S. Batra	2 WTC 37 th Fl
1	C. Semah	2 WTC 35 th Fl

Facility WTC Floor 89th TAA No. 991202 Date 11/19/99Application/Tenant Metropolitan Life InsuranceConsultant LA INTERIOR ARCHITECTSEstimated Cost \$190,000 Submittal No. ONE (1)

Description of Work

RENOVATION

* for each submission

Please review the attached (revised) application and send comments to:

Name: Carlo J. SaavedraLocation: 1 WTC, 88S Phone No. 435-2922Fax No.: 435-816812/3/99
Due Date**DESIGN DISCIPLINES**

- ☐ Architectural
☐ Egress Analysis
☐ Structural
☐ HVAC
☐ Plumbing
☐ Sprinkler
☐ Electrical
☐ Utility > 600 V
☐ Civil
☐ Geotechnical
☐ Environmental
☐ Fueling
☐ Radio Freq. Coord.
☐ Corrosion Protection
☐ Elevator/Escalator
☐ Other

ATTACHMENTS

- ☐ Document List
☐ Contract Drawings
☐ Contract Specifications
☐ Tenant Response
☐ Computations
☐ Reports
☐ Catalog Cuts
☐ Other

SPECIAL INSTRUCTIONS**SELF CERTIFICATION****DESCRIPTION**
 THE PORT AUTHORITY OF N.Y. & N.J.
 ENGINEERING DEPT. QUALITY ASSURANCE DIV.
 DESIGN STANDARDS

 NOV 29 1999
 WC 99-1202

 RECEIVED
 ALTERATIONS APPLICATION
 TENANT CONSTRUCTION REVIEW UNIT

 Copy to: R. Benacchio, T. Koebel, J. Napolitano,
 L. Menno, E. Monteverde, J. Richardson,
 J. Ruiz, N. Seliga, F. Varriano

(Proj. Mgr.)

(Zone Prop. Mgr.)

Signature

For Port Authority Use Only	
FACILITY	1 WTC 89
DATE	11/19/99
APPLICANT'S NAME	MetLife

TENANT CONSTRUCTION OR ALTERATION APPLICATION

APPLICANT MUST READ THE TERMS AND CONDITIONS PRINTED ON THE REVERSE HEREOF

The Applicant shall not commence performance of any of the said work prior to the receipt by Applicant of a copy of this application duly signed in Part Two hereof on behalf of The Port Authority of New York and New Jersey. Upon receipt thereof, the Applicant agrees to perform said work in accordance with the following "Information to be Furnished by Applicant" and to comply with and be bound by all requirements and conditions set forth below under the remarks, if any, in Part Two hereof and the terms and conditions set forth on the reverse hereof.

PART ONE: Information to be furnished by Applicant (Refer to your lease or permit for required information)

Permission is hereby requested to perform the following described work on the space occupied by the Applicant

AT (FACILITY)	WTC	PURSUANT TO (LEASE, SPACE PERMIT) NUMBER	LOCATION (BUILDING NUMBER OR AREA) OF SPACE TO BE ALTERED
			TOWER 1 8A th FLOOR SUITE N 8A27
DESCRIPTION OF WORK AND REASON DEMOLISH EXISTING INTERIOR PARTITIONS, CONSTRUCT NEW OFFICES, INSTALL "HAWORTH" SYSTEMS, FURNITURE. USE EXISTING TRENCH SYSTEM FOR POWER/TEL/DATA. NO STRUCTURAL WORK.			
ESTIMATED COST OF WORK	\$ 190,000.00	ESTIMATED TIME TO COMPLETE (DAYS)	48
STARTING DATE	12/06/99	COMPLETION DATE	1/15/00

Plans: Prints of each drawing must be submitted with copies of application. Include floor plan and show area affected by proposed work (size 8 1/2" x 11" or larger).

TITLE OF DRAWING

DRAWING NUMBER

DATED

SEE ATTACHED LIST OF DRAWINGS

NAME & ADDRESS OF CONTRACTOR (IF NOT KNOWN, SUBMIT LATER)

NAME AND ADDRESS OF ENGINEER OR ARCHITECT

TELEPHONE NUMBER

SEND CORRESPONDENCE TO:

NAME AND ADDRESS OF EMPLOYEE IN CHARGE OF WORK

MARK WITTENBERG
335 MADISON AVE. - SUITE 305
NEW YORK, NY 10017

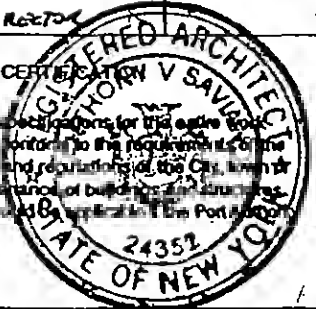
1A
335 MADISON AVE
NEW YORK, NY 10017

672-0290
LICENSE NUMBER

ANTHONY SAVIANO - TECHNICAL DIRECTOR

ENGINEER OR ARCHITECT CERTIFICATION

I have supervised the preparation of plans and specifications for the entire work represented herein and hereby certify that they conform to the requirements of the respective enactments, ordinances, resolutions and regulations of the City, town or municipality in regard to construction and maintenance of buildings and structures and in regard to health and fire protection which were a private corporation.



TELEPHONE NUMBER

212-672-0290

APPLICANT'S NAME (AS IT APPEARS ON LEASE OR PERMIT)

METLIFE POLICAR LIFE INSURANCE CO.

BY (SIGNATURE OF AUTHORIZED REP.)

TITLE

DATE

8/26/99

SIGNATURE OF LICENSED PROFESSIONAL ENGINEER OR ARCHITECT

DATE

11/18/99

The Contractor by signing below agrees to all the terms and conditions on this application and printed on the reverse side thereof, including \$5 indemnifying the Port Authority, and further agrees to be bound by all riders and schedules attached to this application.

☒ The Applicant must check here if the Professional Certification Program is elected for tenant construction or alteration at the World Trade Center.

Signature: _____
(Contractor) Date: _____

Address: _____

Please advise the undersigned, in writing, when this work has been completed.

PART TWO: Prepared by Port Authority and returned to Applicant

The above Application is ☐ Approved ☐ Disapproved. Subject to the following conditions:

☐ Continued on Rider "A," "B," "C," "F," and "G" (Rider G will be included only for the Professional Certification Program)

THE PORT AUTHORITY OF NY & NJ

INSPECTED BY

DATE

/ /

BY

TITLE

DATE

Manager of Tenant and Technical Services/WTD

PORT AUTHORITY OF NY & NJ
ENGINEERING DEPT. OF QUALITY ASSURANCE OF
DESIGN STANDARDS

NOV 29 1999

Wc99-1202 ①

RECEIVED
ALTERATIONS APPLICATION
TENANT CONSTRUCTION REVIEW UNIT



AN AFFILIATE OF
INTERIOR ARCHITECTS, P.C.

OFFICE COPY

BOSTON

CHICAGO

COSTA MESA

DALLAS

FT. LAUDERDALE

LONDON

LOS ANGELES

NEW YORK

SAN FRANCISCO

SILICON VALLEY

WASHINGTON, D.C.

List of Drawings

November 19, 1999

Architectural:

- AN-1 Notes and Legends
- AN-2 Notes
- AN-3 Notes
- AN-4 ADA Notes

- A.0-A.1 Demolition and Construction plans
- A.2-A.3 Power & Telephone and reflected ceiling plans
- A.4-A.5 Finish and Furniture Plans

A 7.1 Interior Elevations

- A 8.1 Details
- A 8.2 Details
- A 8.3 Details

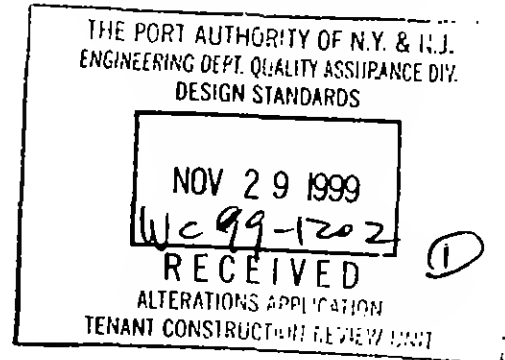
Engineering:

- E-1 Lighting plan
- E-2 Power plan
- E-3 Electrical specifications
- E-4 Electrical specifications

- M-1 Existing conditions removal plan
- M-2 Reflected ceiling plan
- M-3 HVAC Specifications

P-1 Plan, notes, legends, specs & Riser diagram

- SP-1 Sprinkler Plan, notes & details
- SP-2 Sprinkler specifications



335 MADISON AVENUE
SUITE 305
NEW YORK, NY 10017
212-682-6909
212-867-8852 FAX

INTERIOR ARCHITECTURE
JEFFERSON / FACILITIES MANAGEMENT
OCCUPANCY ADVISORY SERVICES
PERFORMANCE PROGRAMMING
WORKPLACE TRANSFORMATION

BASKETWEAVE

Systems Fabric

Grade B PLACES® | UniGroup®

Refer to Price List for current specification information.

SPECIFICATION INFORMATION

Color Code	Color Name
F-6K	Baby Blue
F-7M	Birch
F-6X	Bluegrass
F-7J	Buff
F-AL	Feather Blue
F-AJ	Feather Gray
F-6J	French Blue
F-2E	Ivory
F-6Y	Lavender
F-EA	Natural
F-ED	Orchid
F-EC	Oyster
F-AF	Parchment
F-AH	Soft Lavender
F-JX	Sterling
F-EH	Verdigris

All colorways are subject to dye lot variation.

TECHNICAL INFORMATION

Weight: 20.0 oz. ± 10% per linear yard

Width: 66"

Content: 100% Recycled Polyester

Backing: N/A

Directional: No

Flammability: ASTM-E-84

PASS Class A, Haworth Panel

Light Fastness: AATCC-16A: 40 hours

Note: F-6Y Lavender and F-6X Bluegrass are NOT 100% Recycled



HAWORTH®
furniture for what's next®

Haworth, Inc., One Haworth Center
Holland, Michigan 49423-9576 U.S.A.

For information regarding
Haworth products and services,
call (800)344-2600, Extension 45
(US and Canada) or (616)393-3100

Haworth is a registered
trademark of Haworth, Inc.

Printed in U.S.A. (H96

©Haworth, Inc. 1998

0798 #2951

OFFICE COPY

<p>NEW YORK CITY FIRE DEPT. QUALITY ASSURANCE CT. DESIGN STANDARDS</p> <p>NOV 29 1999 WC 99-1202 RECEIVED ALTERATIONS APPLICATION CONSTRUCTION REVIEW UNIT</p>	①
--	---

shaw | contract flooring
580 Broadway
New York, NY 10012
tel 212-334-3100
212-334-3335 fax

shaw | contract flooring

Shaw Industries Inc

Fax Cover This is a confidential message, intended solely for the person to whom it is addressed. If you receive this message in error, please forward it to the correct person, or mail it back to us. Thank you.

To Mr Mark Wittenberg
Fax No. 212.867.8852
From Randy Lee, Jr
Date/Time 8/10/99 at 4:41 PM
Subject Flame and Smoke tests
Pages 5, including this one

Please feel free to contact me if you have any questions.

Thanks Randy



**Professional
Testing
Laboratory
Inc.**

TEST REPORT

TEST NUMBER	0039811
DATE	04/11/96

CLIENT	NETWORK/DIV. OF SHAW IND.
TEST METHOD CONDUCTED	ASTM E648-94a Critical Radiant Flux of Floor Covering Systems Using A Radiant Heat Energy Source; also referenced as NFPA 253 and FTM Standard 372

DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	59341 Resonance Square
COLOR	41440 Light Delft
ROLL	165228-5
CONSTRUCTION	Tip Sheared Loop Pile
FIBER	DuPont Antron Legacy
BACKING	Perma Bac

This test report relates to installation in accordance with the criteria set forth in the report. Any variation in the criteria may produce different results."

TEST RESULTS

AVERAGE CRITICAL RADIANT FLUX	52 Watts/Square Cm
--------------------------------------	--------------------

GENERAL PRINCIPLE:

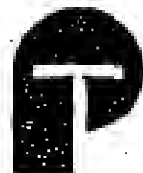
This procedure is designed to measure the critical radiant flux at flame out, of horizontally mounted floor covering systems exposed to a flaming ignition in a test chamber which provides a graded radiant heat energy environment. The imposed radiant flux simulates the thermal radiation levels likely to impinge on the floors of a building whose upper surfaces are heated by flames of compartment. The test result is an average critical radiant flux (watts/square cm) which indicates the level of radiant heat energy required to sustain flame propagation in the flooring system. Theoretically, if a room fire does not impose a radiant flux that exceeds this critical level on a corridor floor covering system, flame spread will not occur.

OFFICE COPY

PAGE 1

This facility is accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under ISO Code 10027. Accreditation does not constitute an endorsement, certification, or approval by NIST or any agency of the United States Government for the product tested. This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. This report applies only to those samples tested and is not necessarily indicative of apparently identical or similar products. This report, or the name of Professional Testing Laboratory, Inc., shall not be used under any circumstances in advertising to the general public.

NOV 29 1999
WC 99-1202
RECEIVED
ALTERATIONS APPLICATION
TENANT CONSTRUCTION REVIEW UNIT
INVLAP



**Professional
Testing
Laboratory
Inc.**

TEST REPORT

TEST NUMBER	0039811
DATE	04/11/96

CLIENT	NETWORK/DIV. OF SHAW IND.
---------------	---------------------------

TEST METHOD CONDUCTED	ASTM E648-94a Critical Radiant Flux of Floor Covering Systems Using A Radiant Heat Energy Source, also referenced as NFPA 253 and FTM Standard 372
----------------------------------	--

DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	59341 Resonance Square
COLOR	41440 Light Delft
SQL	165228-5
CONSTRUCTION	Tip Sheared Loop Pile
FIBER	DuPont Antron Legacy
BACKING	Perma Bac

This test report relates to installation in accordance with the criteria set forth in the report. Any variation in the criteria may produce different results.

FLOORING SYSTEM ASSEMBLY	
SUBSTRATE UNDERLAYMENT ADHESIVE	Mineral-Fiber/Cement Board Direct Glue Down Sureset 5000

CONDITIONING	Each test sample was conditioned a minimum of 96 hours at 70 \pm 5° F and 50 \pm 5% relative humidity.
---------------------	--

TEST RESULTS:

TEST DATA	DISTANCE BURNED	TIME TO FLAME OUT	CRITICAL RADIANT FLUX
SPECIMEN 1	41 cm	30 minutes	.48 watts/sq cm
SPECIMEN 2	38 cm	34 minutes	.53 watts/sq cm
SPECIMEN 3	37 cm	39 minutes	.55 watts/sq cm
AVERAGE CRITICAL RA			.52 watts/sq cm
STANDARD DEVIATION			.04 watts/sq cm
COEFFICIENT OF VARIATION			7%

APPROVED BY:

Gayle A. Curry

This facility is accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code 100297. This accreditation does not constitute an endorsement, certification, or approval by NIST or any agency of the United States Government for the product tested. This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. This report applies only to those samples tested and is not necessarily indicative of apparently identical or similar products. This report, or the name of Professional Testing Laboratory, Inc., shall not be used under any circumstances in advertising to the general public.





Professional
Testing
Laboratory
Inc.

TEST REPORT

TEST NUMBER	0039811
DATE	04/11/96

CLIENT	NETWORK/DIV. OF SHAW IND.
--------	---------------------------

TEST METHOD CONDUCTED	ASTM E662-93 Specific Optical Density of Smoke Generated by Solid Materials, also referenced as NFPA 258
--------------------------	--

DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	59341 Resonance Square
COLOR	41440 Light Delft
RGB	165228-5
CONSTRUCTION	Tip Sheared Loop Plie
FIBER	DUPont Antron Legacy
BACKING	Perma Bac

TEST RESULTS:

FLAMING	320
---------	-----

GENERAL PRINCIPLE:

This procedure is designed to measure the specific optical density of smoke generated by the test specimen within a closed chamber. Each specimen is exposed to an electrically heated radiant-energy source positioned to provide a constant irradiance level of 2.5 watts/square cm on the specimen surface. Measurements are recorded through a photometric system employing a vertical beam of light and a photo detector positioned to detect the attenuation of light transmittance caused by smoke accumulation within the chamber. The light transmittance measurements are used to calculate specific optical density, a quantitative value which can be factored to estimate the smoke potential of materials. Two burning conditions can be simulated by the test apparatus. The radiant heating in the absence of ignition is referred to as the Non-Flaming Mode. A flaming combustion in the presence of supporting radiation constitutes the Flaming Mode.

PAGE 1

This facility is accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code 100297. This accreditation does not constitute an endorsement, certification, or approval by NIST or any agency of the United States Government for the product tested. This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. This report applies only to those samples tested and is not necessarily indicative of apparently identical or similar products. This report, or the name of Professional Testing Laboratory, Inc., shall not be used under any circumstances leading to the general public.





Professional
Testing
Laboratory
Inc.

TEST REPORT

TEST NUMBER	0039811
DATE	04/11/96

CLIENT	NETWORK/DIV. OF SHAW IND.
--------	---------------------------

TEST METHOD CONDUCTED	ASTM E662-93 Specific Optical Density of Smoke Generated by Solid Materials, also referenced as NFPA 258
--------------------------	--

DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	59341 Resonance Square
COLOR	41440 Light Delft
ROLL	165228-5
CONSTRUCTION	Tip Sheared Loop Pile
FIBER	DuPont Antron Legacy
BAGGING	Perma Bac

CONDITIONS			
PREDRYING OF TEST SAMPLE	24 Hours at 140 degrees F		
CONDITIONING OF TEST SAMPLE	24 Hours at 70 degrees F and 50% relative humidity		
FURNACE VOLTAGE	109 V	IRRADIANCE	2.5 watts/sq cm
CHAMBER TEMPERATURE	95 degrees F	CHAMBER PRESSURE	3" H2O
TEST MODE	Flaming		

TEST RESULTS:

AVERAGE MAXIMUM DENSITY CORRECTED (DMC)	320		
TEST SPECIMEN	1	2	3
Maximum Density (Dm)	366	369	396
Time to Dm (minutes)	10.3	10.0	10.0
Clear Beam (Dc)	67	51	53
Corr. Max Density (Dmc)	299	318	343
Density at 1.5 minutes	1	1	1
Density at 4.0 minutes	185	191	209
Time to 90% Dm (minutes)	7.7	5.8	5.4
Specimen Weight (grams)	30.8	30.2	30.2
AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES: 195			

APPROVED BY:

This facility is accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code 100297. This accreditation does not constitute an endorsement, certification, or approval by NIST or any agency of the United States Government for the product tested. This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. This report applies only to those samples tested and is not necessarily indicative of apparently identical or similar products. This report, or the name of Professional Testing Laboratory, Inc., shall not be used under any circumstance in advertising to the general public.



Design Standards

WC99-1202

Charge Code:

REVIEW STATUS

[illegible]

WC99-1202
Renovations

METLIFE

WTC 89 FL